

R2416UL Series UL Listed Rack Mount CCTV Power Supplies

Installation Guide

Models Include:

R2416UL

- 24VAC @ 7A (170VA) or
28VAC @ 6A (170VA).
- Sixteen (16) Fuse Protected Outputs.

R2416300UL

- 24VAC @ 14A (300VA) or
28VAC @ 12.5A (300VA).
- Sixteen (16) Fuse Protected Outputs.

R2416600UL

- 24VAC @ 28A (600VA) or
28VAC @ 25A (600VA).
- Sixteen (16) Fuse Protected Outputs.

R2416ULCB

- 24VAC @ 7A (170VA) or
28VAC @ 6A (170VA).
- Sixteen (16) PTC Protected Outputs.

R2416300ULCB

- 24VAC @ 14A (300VA) or
28VAC @ 12.5A (300VA).
- Sixteen (16) PTC Protected Outputs.

R2416600ULCB


- 24VAC @ 28A (600VA) or
28VAC @ 25A (600VA).
- Sixteen (16) PTC Protected Outputs.



Overview:

Altronix R2416UL Series Rack Mount CCTV Power Supplies provide 24VAC or 28VAC distributed via sixteen (16) fuse or PTC protected outputs for powering CCTV cameras, heaters and other video accessories.

Sixteen (16) Output Rack Mount Configuration Reference Chart:

Altronix Model Number	Output Voltage (VAC)	Total Output Current (Power)	Number of Outputs	PTC Protected auto-resettable Outputs (Class 2 power-limited for Dry locations, Class 3 for Wet locations)	Fuse Protected Class 1 Outputs	Individual Output Current (max per output - not to exceed total output current)	Fuse Ratings	Primary In-line Fuse Ratings	115VAC 50/60Hz Input Current	Agency Listings
R2416UL	24VAC	3.5A	8	-	✓	3.5A	3.5A	3.5A/250V	2.9A	
	28VAC	3A								
R2416ULCB	24VAC	3.5A	8	✓	-	2.5A	-	3.5A/250V	2.9A	
	28VAC	3A								
R2416300UL	24VAC	12.5A	16	-	✓	3.5A	3.5A	-	3A	
	28VAC	10A								
R2416300ULCB	24VAC	12.5A	16	✓	-	2.5A	-	-	3A	
	28VAC	10A								
R2416600UL*	24VAC	25A	16	-	✓	3.5A	3.5A	-	6A	
	28VAC	20A								
R2416600ULCB	24VAC	25A	16	✓	-	2.5A	-	-	6A	
	28VAC	20A								

*24VAC models: Outputs 1-8 provide 12.5A (300VA) max. Outputs 9-16 provide 12.5A (300VA) max.

*28VAC models: Outputs 1-8 provide 10A (280VA) max. Outputs 9-16 provide 10A (280VA) max.

Specifications:

Agency Listings:

- UL Listed for Commercial CCTV Equipment (UL 2044).
- CUL Listed - CSA Standard C22.2 No. 1-98, Audio, Video and Similar Equipment.
- CE European Conformity.

Output:

- 24VAC or 28VAC outputs (Factory set @ 24VAC).
- Surge suppression.
- Filtered and electronically regulated output.
- Short circuit and thermal overload protection.

Visual Indicators:

- Sixteen (16) individual power LED indicators.

Visual Indicators (cont'd):

- Illuminated power disconnect circuit breaker with manual reset.

Features:

- Unit maintains camera synchronization.
- Ease of installation saves time and eliminates costly labor.
- Removable terminal blocks with locking screw flanges.

Rack Dimensions (H x W x D):

- 2U rack mount chassis for use in standard EIA 19" rack.
3.26" x 19.125" x 8.5" (83mm x 486mm x 216mm)

Installation Instructions:

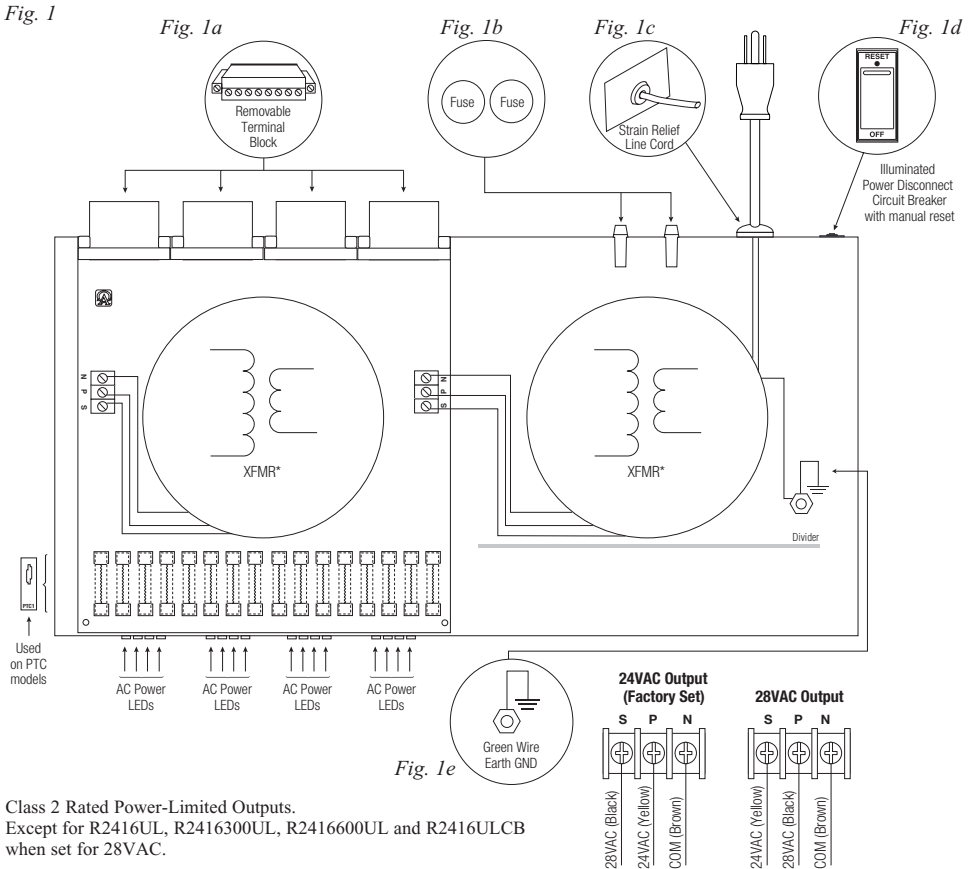
1. Mount unit in the desired rack location (space unit at least 3" from any video monitors). Do not obstruct side air vents.
2. Set power disconnect circuit breaker to OFF position (*Fig. 1d, pg. 3*).
3. The unit is factory set for 24VAC operation.
For 28VAC operation, adjust unit prior to mounting and applying power as follows:
 - a. Open bottom of the unit by removing six (6) screws (*Rack Mechanical Drawing and Dimensions, pg. 4*).
 - b. Change the wire position so that the black wire [28V] is connected to the terminal marked [P] and the yellow wire [24V] is connected to the terminal marked [S].
 - c. After securing all wires for proper voltage place bottom panel back on the unit and fasten with the six (6) screws.

Note: R2416ULCB set for 28VAC operation is not Class 2 Rated, not power-limited.
4. Plug power cord into a grounded 115VAC 50/60 Hz receptacle (*Fig. 1c, pg. 3*), ground should be connected as indicated in (*Fig. 1e, pg. 3*).
5. Set power disconnect circuit breaker to RESET (ON) position (*Fig. 1d, pg. 3*).
6. Measure output voltage before connecting devices. This helps avoiding potential damage. All terminals with common suffix (P) "1P, 2P..." are the same polarity.

7. Set power disconnect circuit breaker to OFF position (*Fig. 1d, pg. 3*).
 8. Connect devices to the removable terminal blocks marked [1P & 1N] through [16P & 16N] (*Fig. 1a, pg. 3*). When wiring is completed on the terminal blocks they can be locked down by tightening screw flanges.
 9. Upon completion of the wiring, set power disconnect circuit breaker to RESET (ON) position (*Fig. 1d, pg. 3*).
 10. Green power LEDs on faceplate will illuminate when power is present. When an output is in a trouble condition (blown fuse or tripped PTC) the corresponding LED will not be illuminated (*Fig. 1, pg. 3*).
 - a. Blown fuse (R2416UL, R2416300UL, and R2416600UL) - Set power disconnect circuit breaker on the back of the unit to the OFF position (*Fig. 1e, pg. 3*).
Remove front faceplate to access fuses. Replace with fuses rated @ 3.5A/250VA (Altronix model # Fuse1).
 - b. Tripped PTC (R2416ULCB, R2416300ULCB, and R2416600ULCB) - To reset PTC, set power switch on the back of the unit to the OFF position. After approximately 30 secs. set power disconnect circuit breaker to the ON (RESET) position (*Fig. 1d, pg. 3*).
 11. Illuminated power disconnect circuit breaker with manual reset:
OFF position - Switch not illuminated. Outputs not powered.
RESET (ON) position - Circuit breaker illuminated. Outputs powered.
Circuit breaker tripped - Circuit breaker is not illuminated. Power LEDs on faceplate are not illuminated. Outputs not powered.
To reset circuit breaker set power disconnect circuit breaker to RESET (ON) position (*Fig. 1d, pg. 3*).
- Note:** Do not exceed units electrical load ratings as indicated in reference chart (*pg. 2*).
Do not place mechanical load on unit. Data racks should always be properly ventilated.
Unit is designed optimally for normal data room office installations.

CAUTION: Equipment to be installed / serviced by authorized / trained personnel only.
Shut branch circuit power before installing / servicing equipment.

WARNING: To reduce the risk of fire or electric shock, do not expose the unit to rain or moisture.
This installation should be made by qualified service personnel and should conform to the National Electrical Code and all local codes.



Class 2 Rated Power-Limited Outputs.
Except for R2416UL, R2416300UL, R2416600UL and R2416ULCB when set for 28VAC.



For fuse protected models:

Replace fuses with the same type and rating 3.5A/250V.



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of an insulated DANGEROUS VOLTAGE within the product's enclosure that may be of sufficient magnitude to constitute an electric shock.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



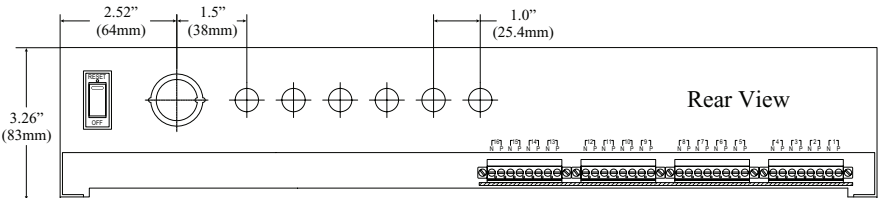
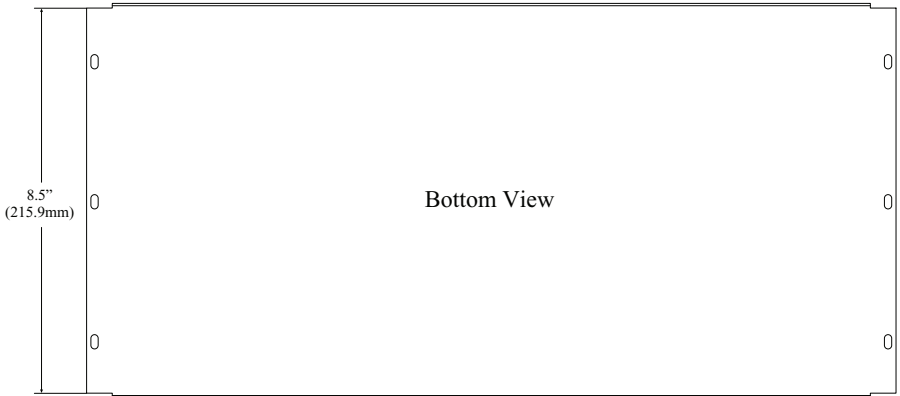
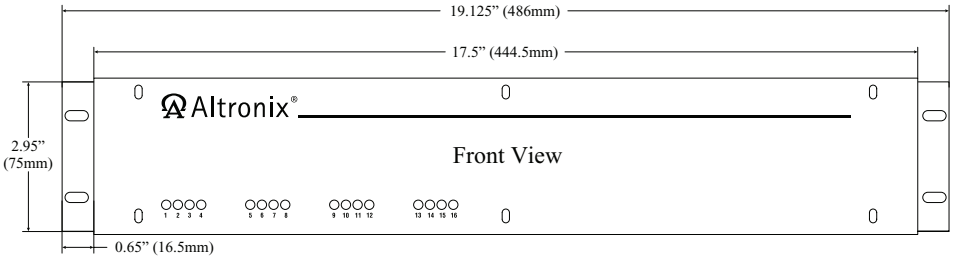
CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION: To reduce the risk of electric shock do not open enclosure. There are no user serviceable parts inside. Refer servicing to qualified service personnel.

Rack Mechanical Drawing and Dimensions:

3.26" x 19.125" x 8.5" (83mm x 486mm x 216mm)



Altronix is not responsible for any typographical errors.

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HR2416ULSeries

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